

OIR #9
7/19/2001

Serial Number: 09/421,971

CRF Processing Date: 7/19/2001

Edited by: AC

Verified by: AC

(STIC staff)

ENTERED

☐

Changed a file from non-ASCII to ASCII

☒

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

☐

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____

☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included: _____

☐

Deleted extra, invalid, headings used by an applicant, specifically: _____

☐

Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____

☐

Inserted mandatory headings, specifically: _____

☐

Corrected an obvious error in the response, specifically: _____

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically: _____

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐

Other: _____

RECEIVED

JUL 31 2001

TECH CENTER 1600/2900

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/421,971

DATE: 07/19/2001

TIME: 11:13:01

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I421971.raw

```

3 <110> APPLICANT: GAGE, Fred
4     SUHR, Steven
5     GIL, Elad
6     SENUT, Marie-Claude
8 <120> TITLE OF INVENTION: HORMONE RECEPTOR FUNCTIONAL DIMERS AND METHODS OF THEIR USE
10 <130> FILE REFERENCE: SALK2350
12 <140> CURRENT APPLICATION NUMBER: US 09/421,971
13 <141> CURRENT FILING DATE: 1999-10-20
15 <160> NUMBER OF SEQ ID NOS: 75
17 <170> SOFTWARE: PatentIn version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 67
21 <212> TYPE: PRT
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <223> OTHER INFORMATION: Binding domain of the steroid/thyroid hormone superfamily
27     of receptor
29 <220> FEATURE:
30 <221> NAME/KEY: VARIANT
31 <222> LOCATION: (1)..(67)
32 <223> OTHER INFORMATION: Xaa is any amino acid
34 <400> SEQUENCE: 1
W--> 37 Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa
      38 1          5          10          15
W--> 40 Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa
      41          20          25          30
W--> 43 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Lys
      44          35          40          45
W--> 46 Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa Lys Cys Xaa Xaa
      47          50          55          60
W--> 49 Xaa Gly Met
      50 65
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 5
55 <212> TYPE: PRT
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <221> NAME/KEY: misc_feature
60 <223> OTHER INFORMATION: Chimeric protein linker
62 <400> SEQUENCE: 2
65 Gly Gly Gly Gly Ser
66 1          5
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 10
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I421971.raw

74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <223> OTHER INFORMATION: Chimeric protein linker
78 <400> SEQUENCE: 3
81 Gly Gly Gly Gly Ser Gly Gly Gly Ser
82 1 5 10
85 <210> SEQ ID NO: 4
86 <211> LENGTH: 12
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <221> NAME/KEY: misc_feature
92 <223> OTHER INFORMATION: Chimeric protein linker
94 <400> SEQUENCE: 4
97 Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser
98 1 5 10
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 14
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <223> OTHER INFORMATION: Chimeric protein linker
110 <400> SEQUENCE: 5
113 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
114 1 5 10
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 18
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <223> OTHER INFORMATION: Chimeric protein linker
126 <400> SEQUENCE: 6
129 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr
130 1 5 10 15
132 Lys Gly
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 14
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <223> OTHER INFORMATION: Chimeric protein linker
145 <400> SEQUENCE: 7
148 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
149 1 5 10
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 18

RAW SEQUENCE LISTING

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154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <223> OTHER INFORMATION: Chimeric protein linker
161 <400> SEQUENCE: 8
164 Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
165 1          5          10          15
167 Lys Gly
171 <210> SEQ ID NO: 9
172 <211> LENGTH: 14
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <223> OTHER INFORMATION: Chimeric protein linker
180 <400> SEQUENCE: 9
183 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe
184 1          5          10
187 <210> SEQ ID NO: 10
188 <211> LENGTH: 5
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <221> NAME/KEY: misc_feature
194 <223> OTHER INFORMATION: Chimeric protein linker
196 <400> SEQUENCE: 10
199 Ser Arg Ser Ser Gly
200 1          5
203 <210> SEQ ID NO: 11
204 <211> LENGTH: 5
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <221> NAME/KEY: misc_feature
210 <223> OTHER INFORMATION: Chimeric protein linker
212 <400> SEQUENCE: 11
215 Ser Gly Ser Ser Cys
216 1          5
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 28
221 <212> TYPE: PRT
222 <213> ORGANISM: Diphtheria toxin
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: Trypsin sensitive linker
228 <400> SEQUENCE: 12
231 Ala Met Gly Arg Ser Gly Gly Gly Cys Ala Gly Asn Arg Val Gly Ser
232 1          5          10          15

```

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Input Set : A:\Pto.amc

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234 Ser Leu Ser Cys Gly Gly Leu Asn Leu Gln Ala Met
235      20      25
238 <210> SEQ ID NO: 13
239 <211> LENGTH: 7
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <223> OTHER INFORMATION: Chimeric protein linker
247 <400> SEQUENCE: 13
250 Ala Met Gly Gly Ser Ala Met
251 1      5
254 <210> SEQ ID NO: 14
255 <211> LENGTH: 13
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <223> OTHER INFORMATION: Nucleotide encoding SfiI recognition site
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (5)..(9)
266 <223> OTHER INFORMATION: n is either g, t, c, or a
268 <400> SEQUENCE: 14
W--> 270 ggccnnnnng gcc      13
275 <210> SEQ ID NO: 15
276 <211> LENGTH: 12
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <223> OTHER INFORMATION: Chimeric protein linker
284 <400> SEQUENCE: 15
287 Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr
288 1      5      10
291 <210> SEQ ID NO: 16
292 <211> LENGTH: 17
293 <212> TYPE: PRT
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <221> NAME/KEY: misc_feature
298 <223> OTHER INFORMATION: GAL4 response element
300 <400> SEQUENCE: 16
303 Cys Gly Gly Ala Gly Gly Ala Cys Thr Gly Thr Cys Cys Thr Cys Cys
304 1      5      10      15
306 Gly
310 <210> SEQ ID NO: 17
311 <211> LENGTH: 12
312 <212> TYPE: PRT

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/421,971

DATE: 07/19/2001

TIME: 11:13:01

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I421971.raw

313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <223> OTHER INFORMATION: SfiI compatible oligonucleotide
319 <400> SEQUENCE: 17
322 Gly Pro Gly Gly Ser Gly Gly Gly Ser Gly Thr
323 1 5 10
326 <210> SEQ ID NO: 18
327 <211> LENGTH: 41
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <221> NAME/KEY: misc_feature
333 <223> OTHER INFORMATION: hRXR N-terminal SfiI primer 5'
335 <400> SEQUENCE: 18
337 gtagaattcg gccaacaggg cccatggaca ccaaacattt c 41
341 <210> SEQ ID NO: 19
342 <211> LENGTH: 20
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <223> OTHER INFORMATION: hRXR N-terminal SfiI primer 3'
350 <400> SEQUENCE: 19
352 gatgggggag ctcagggtgc 20
356 <210> SEQ ID NO: 20
357 <211> LENGTH: 22
358 <212> TYPE: DNA
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <221> NAME/KEY: misc_feature
363 <223> OTHER INFORMATION: hRXR C-terminal SfiI primer 5'
365 <400> SEQUENCE: 20
367 ggagagctcg aggcctactg ca 22
371 <210> SEQ ID NO: 21
372 <211> LENGTH: 39
373 <212> TYPE: DNA
374 <213> ORGANISM: Artificial Sequence
376 <220> FEATURE:
377 <221> NAME/KEY: misc_feature
378 <223> OTHER INFORMATION: hRXR C-terminal SfiI primer 3'
380 <400> SEQUENCE: 21
382 accatcgatt cagggccctg ttggcccgtg cggcgcctc 39
386 <210> SEQ ID NO: 22
387 <211> LENGTH: 41
388 <212> TYPE: DNA
389 <213> ORGANISM: Artificial Sequence
391 <220> FEATURE:
392 <221> NAME/KEY: misc_feature

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/421,971

DATE: 07/19/2001

TIME: 11:13:02

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I421971.raw

L:37 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14